

Francois Guillemette

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

1,808
citations

361045

20
h-index

454577

30
g-index

33
all docs

33
docs citations

33
times ranked

2356
citing authors

#	ARTICLE	IF	CITATIONS
1	Increases in terrestrially derived carbon stimulate organic carbon processing and CO ₂ emissions in boreal aquatic ecosystems. <i>Nature Communications</i> , 2013, 4, 2972.	5.8	241
2	Unifying Concepts Linking Dissolved Organic Matter Composition to Persistence in Aquatic Ecosystems. <i>Environmental Science & Technology</i> , 2018, 52, 2538-2548.	4.6	204
3	Reconstructing the various facets of dissolved organic carbon bioavailability in freshwater ecosystems. <i>Limnology and Oceanography</i> , 2011, 56, 734-748.	1.6	157
4	Widespread occurrence and spatial distribution of glyphosate, atrazine, and neonicotinoids pesticides in the St. Lawrence and tributary rivers. <i>Environmental Pollution</i> , 2019, 250, 29-39.	3.7	131
5	Differentiating the degradation dynamics of algal and terrestrial carbon within complex natural dissolved organic carbon in temperate lakes. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013, 118, 963-973.	1.3	121
6	Simultaneous consumption and production of fluorescent dissolved organic matter by lake bacterioplankton. <i>Environmental Microbiology</i> , 2012, 14, 1432-1443.	1.8	105
7	Selective consumption and metabolic allocation of terrestrial and algal carbon determine allochthony in lake bacteria. <i>ISME Journal</i> , 2016, 10, 1373-1382.	4.4	103
8	DOM composition and transformation in boreal forest soils: The effects of temperature and organicâ€œhorizon decomposition state. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 2727-2744.	1.3	77
9	Modeling Allochthonous Dissolved Organic Carbon Mineralization Under Variable Hydrologic Regimes in Boreal Lakes. <i>Ecosystems</i> , 2017, 20, 781-795.	1.6	60
10	Seasonal variations of phage life strategies and bacterial physiological states in three northern temperate lakes. <i>Environmental Microbiology</i> , 2010, 12, 628-641.	1.8	57
11	Preferential sequestration of terrestrial organic matter in boreal lake sediments. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 863-874.	1.3	53
12	The Ephemeral Signature of Permafrost Carbon in an Arctic Fluvial Network. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 1475-1485.	1.3	53
13	Degradation potentials of dissolved organic carbon (DOC) from thawed permafrost peat. <i>Scientific Reports</i> , 2017, 7, 45811.	1.6	47
14	Old before your time: Ancient carbon incorporation in contemporary aquatic foodwebs. <i>Limnology and Oceanography</i> , 2017, 62, 1682-1700.	1.6	45
15	Effects of compositional changes on reactivity continuum and decomposition kinetics of lake dissolved organic matter. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 1733-1746.	1.3	43
16	Unraveling the sizeâ€œdependent optical properties of dissolved organic matter. <i>Limnology and Oceanography</i> , 2018, 63, 588-601.	1.6	36
17	Flux and Seasonality of Dissolved Organic Matter From the Northern Dvina (Severnaya Dvina) River, Russia. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 1041-1056.	1.3	33
18	Temporal Dynamics in the Concentration, Flux, and Optical Properties of Treeâ€œDerived Dissolved Organic Matter in an Epiphyteâ€œLaden Oakâ€œCedar Forest. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 2982-2997.	1.3	32

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19	An Assessment of Dissolved Organic Carbon Biodegradability and Priming in Blackwater Systems. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 2998-3015.	1.3	31
20	Delineating the Continuum of Dissolved Organic Matter in Temperate River Networks. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2019GB006495.	1.9	29
21	Influence of soil frost on the character and degradability of dissolved organic carbon in boreal forest soils. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 829-840.	1.3	20
22	Drivers of Dissolved Organic Matter in the Vent and Major Conduits of the World's Largest Freshwater Spring. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 2775-2790.	1.3	20
23	High abundances of the nuisance raphidophyte <i>Gonyostomum semen</i> in brown water lakes are associated with high concentrations of iron. <i>Scientific Reports</i> , 2018, 8, 13463.	1.6	18
24	A system to quantitatively recover bacterioplankton respiratory CO ₂ for isotopic analysis to trace sources and ages of organic matter consumed in freshwaters. <i>Limnology and Oceanography: Methods</i> , 2006, 4, 406-415.	1.0	16
25	Convergence of Terrestrial Dissolved Organic Matter Composition and the Role of Microbial Buffering in Aquatic Ecosystems. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 3125-3142.	1.3	16
26	Deep ocean microbial communities produce more stable dissolved organic matter through the succession of rare prokaryotes. <i>Science Advances</i> , 2022, 8, .	4.7	16
27	Key Questions on the Evaporation and Transport of Intercepted Precipitation. , 2020, , 269-280.		13
28	Systematic microbial production of optically active dissolved organic matter in subarctic lake water. <i>Limnology and Oceanography</i> , 2020, 65, 951-961.	1.6	11
29	Throughfall and Stemflow: The Crowning Headwaters of the Aquatic Carbon Cycle. , 2020, , 121-132.		8
30	Biological and photochemical reactivity of dissolved organic matter in a large temperate river. <i>Limnology and Oceanography</i> , 2022, 67, 1388-1401.	1.6	4
31	Trapped Under Ice: Spatial and Seasonal Dynamics of Dissolved Organic Matter Composition in Tundra Lakes. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2022, 127, .	1.3	3
32	Unrelated Fungal Rust Candidate Effectors Act on Overlapping Plant Functions. <i>Microorganisms</i> , 2021, 9, 996.	1.6	2